INHALT-CONTENTS-SOMMAIRE

ORIGINALARBEITEN

Original Papers · Articles originaux

	Seite Page	Nr. Issue
Abdel-Malek, H. L., and El-Bardissy, S. A.: Selection of fictitious independent variables for the solution of sparse linear equations	431	3
Apelblat, A.: Integral representation of Kelvin functions and their derivatives with		
respect to the order	708	5
annulus due to suction at the walls	605	4
Barry, S. I., Parker, K. H., and Aldis, G. K.: Fluid flow over a thin deformable porous	243	2
layer	633	5
Bates, L. M.: Monodromy in the champagne bottle	837	6
Bera, R. K., and Chakrabarti A.: Cooling of a composite slab in a two-fluid medium. Brauchli, H.: Mass-orthogonal formulation of equations of motion for multibody	943	6
systems	169	2
amplifying waves in parallel shear flows	911	6
symétrique en apesanteur	506	4
ing twist maps	80	1
method for inhomogeneous partial differential equations Dittmar, B., and Schenk, B.: Zur Berechnung Stekloffscher Eigenwerte – numerische	730	5
Beispiele	497	4
Elbert, A., and Laforgia, A.: On the zeros of generalized Airy functions	521	
Fabrikant, V. I.: Mixed boundary value problem of potential theory in toroidal		
coordinates	680	
Fiebig-Wittmaack, M.: On the number of solutions of a Duffing equation	445	
rotation on near-surface, turbulent boundary layers	565	
Grabmüller, H.: Wrinkle-free solutions in the theory of annular elastic membranes. Green, A. E., and Naghdi, P. M.: A demonstration of consistency of an entropy	783	
balance with balance of energy	159	2
manifolds	33	1
Gurtin, M. E.: On thermomechanical laws for the motion of a phase interface	370	3
Herbert, D.M.: Finite activation energy reactions. Part 1: Reactants with spatially		
varying surface temperature	90	-
Herbert, D.M.: Finite activation energy reactions. Part 2: A reactive ridge Ingham, D.B., Tang, T., and Morton, B.R.: Steady two-dimensional flow past a normal	257	2
flat plate	584	4

	Seite Page	Nr. Issue
Keller, J. J., and Chyou, YP.: On the hydraulic lock-exchange problem	874	6
for pulse amplitude modulated signals. Part II: The finite dimensional model	757	5
Kreyszig, E.: Bergman-Vekua theory in differential form	774	5
channel	139	1
pulsating flow in the basilar artery	649	5
Kügerl, G., and Schürrer, F.: Scalar nonlinear Boltzmann equation for gas-mixtures	362	3
Kügerl, G.: A consistent numerical method for the solution of the Boltzmann equation for inelastic and reactive scattering	821	6
Laederich, S.: Periodic solutions of non linear differential difference equations	264	2
Lang, E.: Gas flow in pipelines following a rupture computed by a spectral method Le Khanh Chau, and Pham Duc Chinh: On bounding the effective conductivity of	183	2
isotropic composite materials Levine, H. A.: A Fujita type global existence-global nonexistence theorem for a weakly	614	4
coupled system of reaction-diffusion equations	408	3
MacDonald, D. A.: Viscous flow in a slowly varying tube which rotates about its axis	213	2
Markowich, P. A.: On steady state Euler-Poisson models for semiconductors	389	3
Neuberger, M., and Rüdinger, V.: Stosswellenausbreitung in Rohrverzweigungen	321	. 3
Nipp, K.: Numerical integration of stiff ODE's of singular perturbation type	53	1
Obaid, S. A.: Complex variables and flexure	715	5
Onishi, Y.: On the thermal-creep flow of a binary gas mixture over a plane wall with		
imperfect accomodation	348	3
Payne, L. E., and Philippin, G. A.: Some overdetermined boundary value problems for	064	
harmonic functions Philippe, C., and Dumargue, P.: Etude de l'établissement d'un jet liquide laminaire émergeant d'une conduite cylindrique verticale semi-infinie et soumis à l'influence de la	864	6
gravité	227	2
Plum, M.: Bounds for eigenvalues of second-order elliptic differential operators Power, H., Villegas, M., and Tyvand, P.A.: Potential flow past a porous body with a core	848	6
of different permeability	198	2
a single long wave of finite amplitude at the interface of two viscous fluids	663	5
Qi, YW.: The asymptotics of blow-up solutions to a degenerate parabolic equation Saldanha da Gama, R. M.: Existence uniqueness and construction of the solution of the	488	4
energy transfer problem in a rigid and nonconvex black body	334	3
Scarpellini, B.: Center manifolds of infinite dimensions I: Main results and applications.	1	1
Scarpellini, B.: Center manifolds of infinite dimensions II: Proofs of the main results Senn, W.: Über Mosers regularisiertes Variationsproblem für minimale Blätterungen des	280	2
n-dimensionalen Torus	527	4
Shen, S.S.P.: Locally forced critical surface waves in channels of arbitrary cross section.	122	1
Stagni, L.: Elastic field perturbation by an elliptic inhomogeneity with a sliding interface.	811	6
Steinrück, H., and Odeh, F.: The Wigner function for thermal equilibrium	471	4
Stewart, I. W.: Density conservation for a coagulation equation	746	5
Swaters, G. E.: Dynamical characteristics of decaying Lamb couples	109	1
Torrisi, M., and Tracinà, R.: On the symmetric conservative form of a binary reacting mixture	100) 1
Zayed, E. M. E.: Hearing the shape of a general doubly-connected domain in R ³ with mixed boundary conditions	547	

KURZE MITTEILUNGEN

Brief Reports - Communications brèves

	Seite Page	Nr. Issue	
Georgiou, M., and Olmstead, W. E.: Some Fredholm equations with boundary layer resonance	460)	3
Hassan, M. M., and El-Sabbagh, M. F.: Transport equations of higher order discontinuities for quasilinear hyperbolic systems	960)	6
Needham, D.J.: A note on the global asymptotic stability of the unreacting state in a	450		-
simple model for quadratic autocatalysis with linear decay	455		3
Sullivan, P. J., and Yip, H.: Contaminant dispersion from an elevated point source	315	5	2
Watzky, A.: Displacement of slender axisymmetric bodies: A convenient change of basis.	623	3	4

VARIA

Miscellaneous · Divers

I	36	V	0	rs	te	eh	ie	ne	de		T	ag	gu	ın	g	er	1	_	I	Li	st	of	1	fo	rt	h	cc	n	nii	ng	g	in	nt	eı	rn	al	tic	OI	na	1	m	e	eti	in	gs	_	P	n	C	ha	ai	ne	28	6		
		cc	or	nf	éı	re	n	ce	S	ir	nte	ei	m	a	tic	10	ıa	le	es																																				154	1
																																													*										319	2
																																																							628	4
			*					*																												*						*			*								. ,		806	5

BUCHBESPRECHUNGEN

Book Reviews · Notices bibliographiques

	Seite Page		
Acheson, D.J.: Elementary Fluid Dynamics (Clarendon Press, Oxford 1990) (Ref.			
N. Rott)	968	8 6	1
Applications (Springer-Verlag, Berlin 1990) (Ref. N. Straumann)	468	3 3	
(Springer-Verlag, Berlin 1989) (Ref. C. Eugene Wayne)	967	7 6	9
Bourbaki, N.: Algebra I-Chapt. 1-3 (Springer-Verlag, Berlin 1988) (Ref. Ralph Strebel). Brodmann, M.: Algebraische Geometrie, eine Einführung (Birkhäuser Verlag, Basel	158	3 1	
1989) (Ref. MA. Knus) Brown, K.J. and Lacey, A.A.: Reaction-Diffusion Equations (Oxford Scientific Publ.	810) 5	
1990) (Ref. R. Sperb) Bruce, J.W., Giblin, P.J. and Rippon, P.J.: Microcomputers and Mathematics (Cam-	632	2 4	1
bridge University Press 1990) (Ref. H.R. Schneebeli)	468	3	3
Schneebeli) Cellina, A. (Ed.): Methods of Nonconvex Analysis (Springer-Verlag, Berlin 1990) (Ref.	632	2 4	1
Dacorogna) Cherbit, G. (Ed.): Fractals. Non-Integral Dimensions and Applications (John Wiley &	966	5 6	5
Sons, Chichester 1991) (Ref. Christian Blatter). Chetaev, N.G.: Theoretical Mechanics (Springer-Verlag, Berlin 1989) (Ref. P.	966	6 6	5
Hagedorn)	155	5 1	1
Chorin, A.J. and Marsden, J.E.: A Mathematical Introduction to Fluid Mechanics (Springer-Verlag, New York, 2nd ed. 1990) (Ref. Michael Renardy)	630	0 4	4
Chudnovsky, D. and Jenks, R. (Eds.): Computer Algebra (Marcel Dekker, New York 1989) (Ref. R. Mäder)	155	5	1
Conway, J.B.: A Course in Functional Analysis (Springer-Verlag, Berlin 1990) (Ref. M. Koller)	80	7 :	5
Cox, M.G. and Hammerling, S. (Eds.): Reliable Numerical Computation (Oxford University Press 1990) (Ref. Walter Gander)	96	6 (6
Dautry, R. and Lions, JL.: Functional and Variational Methods (Springer-Verlag, Berlin 1988) (Ref. J. Schönenberger-Deuel)	15	8	1
Edgar, G.A.: Measure, Topology, and Fractal Geometry (Springer-Verlag, Berlin 1990) (Ref. Christian Blatter)	96	7 (6
Ekeland, I.: Convexity Methods in Hamiltonian Mechanics (Springer-Verlag, Berlin 1990) (Ref. B. Dacorogna)	81	0	5
Fomenko, A.T.: Symplectic Geometry (Gordon and Breach, New York 1988) (Ref. V. Bangert)	47		3
Fomenko, A. T.: The Plateau Problem, Parts 1 and 2 (Gordon & Breach, New York 1990) (Ref. M. Struwe)			4
Gürlebeck, K. and Sprössig, W.: Quarternionic Analysis and Elliptic Boundary Value			
Problems (Birkhäuser Verlag, Basel 1990) (Ref. R. Verfürth)			3
Studienbücher Mathematik, Stuttgart 1991) (Ref. H.R. Schwarz)			4
Verlag, Berlin 1990) (Ref. Hermann Biner)	63	0	4

	Seite Page	Nr. Issue
Hijab, O.: Stabilization of Control Systems (Springer-Verlag, Berlin 1987) (Ref. H.W. Knobloch)	809	5
Honerkamp, J.: Stochastische Dynamische Systeme (VCH Verlagsgesellschaft, Wein-		
heim 1990) (Ref. Petra Boxler)	156	1
Basel/Boston 1989) (Ref. K. Nipp)	808	5
Jones, R.T.: Wing Theory (Princeton University Press 1990) (Ref. N. Rott) Joseph, D.D.: Fluid Dynamics of Viscoelastic Fluids (Springer, Berlin 1989) (Ref.	968	6
Michael Renardy)	157	1
1990) (Ref. Michael Renardy)	808	5
Math. Sciences, Vol. 76 (Springer-Verlag, Berlin 1988) (Ref. K. Nipp) Le Veque, R.J.: Numerial Methods for Conservation Laws (Birkhäuser Verlag, Basel/	809	5
Boston 1990) (Ref. K. Nipp)	810	5
(Cambridge University Press 1991) (Ref. Hans Thomann)	968	6
matik, Stuttgart 1989) (Ref. M. Hegland)	156	1
(Springer-Verlag, Wien/New York 1990) (Ref. H.U. Schwarzenbach)	320	2
(Ref. Markus Hegland)	469	3
v. Renteln)	157	1
Spaces (Clarendon Press 1990) (T. Bogenschütz, Bremen)	808	1
Spaces (Clarendon Press 1990) (Ref. T. Bogenschütz)	808	5
(Ref. R. Verfürth)	320	2
(Ref. H.R. Schwarz)	319	2
Dacorogna)	967	6
Lorenz Schumann) Weissinger, J.: Spärlich besetzte Gleichungssysteme. Eine Einführung mit BASIC- und	158	1
PASCAL-Programmen (B.I. Wissenschafts-Verlag, Mannheim 1990) (Ref. H.R.	632	4
Schwarz) Wünsche, H.J.: Bewegungssteuerung durch Rechnersehen (Springer-Verlag, Berlin 1988)		
(Ref. Lorenz Schumann) Zeidler, E.: Nonlinear Functional Analysis and its Applications; Vol. II/A: Linear Monotone Operators and II/B: Nonlinear Monotone Operators. (Springer-Verlag,	631	4
New York 1990) (Ref. Michael Renardy)	157	1



AUTORENREGISTER

Index of authors · Table des auteurs

Abdel-Malek, H. L., and El-Bardissy, S. A., 431 Aldis, G. K., see Barry, S. I., 633 Apelblat, A., 708 Aruna Prasad, T.B., and Venkatasiva Murthy, K. N., 605

Bäcker, M., and Dressler, K., 243
Barry, S. I., Parker, K. H., and Aldis, G. K., 633
Bates, L. M., 837
Bera, R. K., and Chakrabarti A., 943
Brauchli, H., 169
Brevdo, L., 911

Capodanno, P., 506
Carmona, C., see Power, H., 663
Chakrabarti A., see Bera, R. K., 943
Chierchia, L., 90
Chyou, Y.-P., see Keller, J. J., 874
Coleman, C. J., Tullock, D. L., and Phan-Thien, N., 730

Dittmar, B., and Schenk, B., 497 Dressler, K., see Bäcker, M., 243 Dumargue, P., see Philippe, C., 227

El-Bardissy, S. A., see Abdel-Malek, H. L., 431 El-Sabbagh, M. F., see Hassan, M. M., 960 Elbert, A., and Laforgia, A., 521

Fabrikant, V. I., 680 Fiebig-Wittmaack, M., 445

Galperin, B., and Mellor, G.L., 565 Georgiou, M., and Olmstead, W. E., 460 Grabmüller, H., 783 Green, A. E., and Naghdi, P. M., 159 Gu, Z.-M., 33 Gurtin, M. E., 370

Hassan, M. M., and El-Sabbagh, M. F., 960 Herbert, D.M., 257 Herbert, D.M., 80 Hillen, B., see Krijger, J.K.B., 139 Hillen, B., see Krijger, J. K. B., 649 Hoogstraten, H.W., see Krijger, J. K. B., 649 Hoogstraten, H.W., see Krijger, J. K. B., 139 Ingham, D.B., Tang, T., and Morton, B.R., 584

Keller, J. J., and Chyou, Y.-P., 874
Kerber, D., 757
Kreyszig, E., 774
Krijger, J. K. B., Hillen, B., and Hoogstraten, H. W., 649
Krijger, J. K.B., Hillen, B., and Hoogstraten, H.W., 139
Kügerl, G., and Schürrer, F., 362
Kügerl, G., 821

Laederich, S., 264 Laforgia, A., see Elbert, A., 521 Lang, E., 183 Le Khanh Chau, and Pham Duc Chinh, 614 Levine, H. A., 408

MacDonald, D. A., 213 Markowich, P. A., 389 Mellor, G. L., see Galperin, B., 565 Morton, B.R., see Ingham, D.B., 584

Naghdi, P. M., see Green, A. E., 159 Needham, D.J., 455 Neuberger, M., and Rüdinger, V., 321 Nipp, K., 53

Obaid, S. A., 715 Odeh, F., see Steinrück, H., 471 Olmstead, W. E., see Georgiou, M., 460 Onishi, Y., 348

Parker, K. H., see Barry, S. I., 633
Payne, L. E., and Philippin, G. A., 864
Pham Duc Chinh, see Le Khanh Chau, 614
Phan-Thien, N., see Coleman, C. J., 730
Philippe, C., and Dumargue, P., 227
Philippin, G. A., see Payne, L. E., 864
Plum, M., 848
Power, H., Villegas, M., and Tyvand, P.A., 198
Power, H., Villegas, M., and Carmona, C., 663

Qi, Y.-W., 488

Rüdinger, V., see Neuberger, M., 321

- Saldanha da Gama, R. M., 334 Scarpellini, B., 1, 280 Schenk, B., see Dittmar, B., 497 Schürrer, F., see Kügerl, G., 362 Senn, W., 527 Shen, S.S.P., 122 Stagni, L., 811 Steinrück, H., and Odeh, F., 471 Stewart, I. W., 746 Sullivan, P. J., and Yip, H., 315
- Tang, T., see Ingham, D.B., 584 Torrisi, M., and Tracinà, R., 100

Swaters, G. E., 109

- Tracinà, R., see Torrisi, M., 100 Tullock, D. L., see Coleman, C. J., 730 Tyvand, P.A., see Power, H., 198
- Venkatasiva Murthy, K. N., see Aruna Prasad, T.B., 605 Villegas, M., see Power, H., 198 Villegas, M., see Power, H., 663
- Watzky, A., 623
- Yip, H., see Sullivan, P. J., 315
- Zayed, E. M. E., 547

Fasc. 1 (January 1991) pag. 1–158 Fasc. 2 (March 1991) pag. 159–320 Fasc. 3 (May 1991) pag. 321–470 Fasc. 4 (July 1991) pag. 471–632 Fasc. 5 (September 1991) pag. 633–810 Fasc. 6 (November 1991) pag. 811–968

This work is subject to copyright. All rights are reserved, whether the whole or part of the material is concerned, specifically those of translation, reprinting, re-use of illustrations broadcasting, reproductions by photocopying machine or similar means, and storage in data banks.

